

User's ▶▶▶▶▶ Manual

Net-Stor™ Network Storage Center

HNAS1



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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
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Introduction

Net-Stor™ Network Storage Center

Powerful and Easy

The compact Hawking HNAS1 *Net-Stor*™ Network Storage Center is an economical and powerful device, and provides an ideal solution for small business and small office/home office users. The HNAS1 functions as both a file server and FTP server, and can be used to easily share video, music, and data files. It can also be configured to allow the transfer or backup of files directly over the Internet via the web browser or FTP. The HNAS1 is compatible with Windows95/98/98SE/ME/XP/2000/NT4.0 network environments. It supports all standard 3.5" IDE Hard Drives of up to 250GB (hard drive not included). The Smart Setup Wizard makes installation of the Network Storage Center simple and the user-friendly web interface makes it easy to manage.

Smart Wizard

The HNAS1 features a smart Setup Wizard that makes installation easy. Powerful auto-installation features, hard drive auto-detection, pre-defined user accounts, and auto-networking settings all provide the user with a simple and convenient way to install and set up the Network Storage Center. All the user has to do is plug in the device and turn it on, utilize the Setup Wizard, and the Network Storage Center is ready for use.

Key Features

- Supports one 10/100Mbps Ethernet port (Auto MDI/MDIX) for network connection
- Web-based user interface for easy configuration and management
- Supports one user-selectable high speed ATA/ATAPI-6 hard drive
- Supports all standard 3.5" IDE hard drives up to 250GB (**hard drive not included**)
- Replaceable hard-drive feature
- Auto-Networking Configuration Utility for Windows OS
- Supports CIFS/SMB for Microsoft Network remote users, allowing them to easily retrieve files using "My Neighborhood"
- Built-in FTP server, allowing users to conveniently transfer files via FTP client
- Compatible with Windows 95/98/98SE/ME/XP/2000/NT4.0
- Built-in hardware button for Factory Default Reset (if necessary)
- Firmware upgrade via web interface page
- Features three pre-defined user levels: all/power/guest, for access accounts.
- Allows for five online SAMBA users (concurrently connected) and five online FTP users (concurrently connected)
- Auto-detects Network Storage Centers for newly installed Network Storage Centers (only for the 1st FAT32 partition)
- Supports static IP addresses
- Provides password security for web management & Network Storage Center access
- FCC, CE, VCCI Class B



Package Contents

Net-Stor™ Network Storage Center

Unpack and Inspect

Open the package and carefully remove all items. The complete HNAS1 package consists of:

- One HNAS1 Network Storage Center (hard drive not included)
- One CD with utility, user's manual, and quick installation guide
- One quick installation guide
- One power adapter (12V/3A)
- Four rubber feet
- Four screws for fastening/securing the hard drive

Please check to make sure that the unit was not damaged during shipping and that no items are missing. If you encounter a problem, please contact your dealer.

Please read this manual thoroughly, and follow the installation and operation procedures contained within.



Hardware Description

Net-Stor™ Network Storage Center

Front Panel



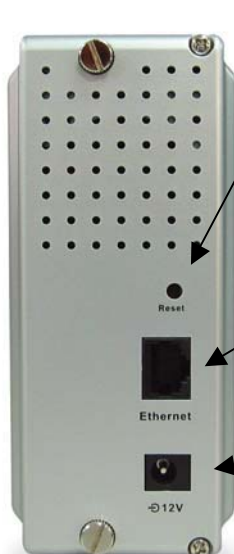
Power Button

To activate the Network Storage Center, press this **Power** button located on the front panel of the device. To power off the unit, press the **Power** button for two seconds until the **Power** LED starts to blink.

LED Definitions

LED	Status	
Power	ON /OFF	Green/Dark
	Boot/Shutdown:	Blinking
Link/ACT	Ethernet Connected	Green
	Ethernet Not Connected	Dark
	Ethernet Data Transfer	Blinking
HD	Hard Drive Data Transfer	Amber/Blinking

Rear Panel



Reset Button

To restore the default settings, use the tip of a ballpoint pen or paper clip to hold this button down for at least five seconds. This will cause the default reset to begin.

Ethernet Port

Use an RJ-45 Ethernet cable to connect the device.

Power Supply

External power adapter:
DC 12V/3A.



IP Protocol Setup

Net-Stor™ Network Storage Center

Configuring the Network Protocols

Please Note: If your *PC* obtains its IP address automatically, the Setup Wizard will not be able to get the PC's IP in order to setup its network configuration, etc. To solve this problem, you will need to connect your PC to a router with a DHCP Server, or set a static IP address in your Windows Network dialog box.

How to Configure the TCP/IP Network Protocol

Regardless of what version of Windows you are using, TCP/IP will be the most appropriate protocol to use because it is typically installed automatically when first installing the drivers. If it is not installed automatically, it can easily be added to your system. **Please Note:** if it is already installed, you can proceed directly to the Hard Drive Installation section, and Quick Setup Wizard section that follows it.

You need to configure a unique IP address for each PC on the network in order to complete the setup process successfully. To do this, follow the instructions below:

An IP address is a set of numbers consisting of four segments (or octets), with each segment separated by periods. The number in the last segment must always be between 0 and 255. The first three segments can be set to something such as 192.168.1. These three segments must be the same for all clients. The last segment is the one that applies specifically to your PC (or other client) and should be a number between 2 to 255 (for example, 192.168.1.2) so that it does not conflict with the Network Storage Center's default IP address of "192.168.1.1".



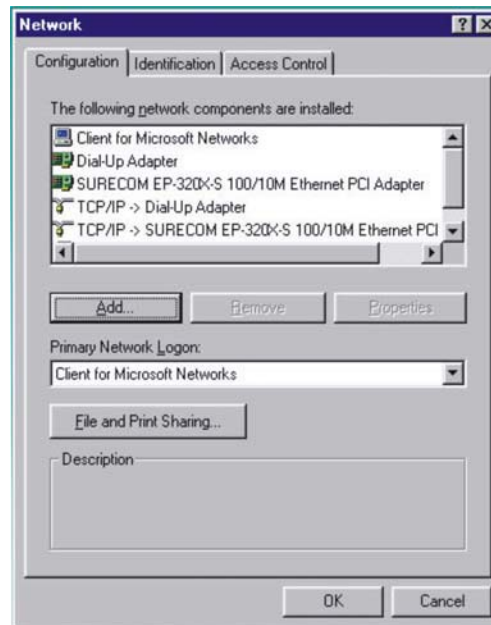
IP Protocol Setup

Net-Stor™ Network Storage Center

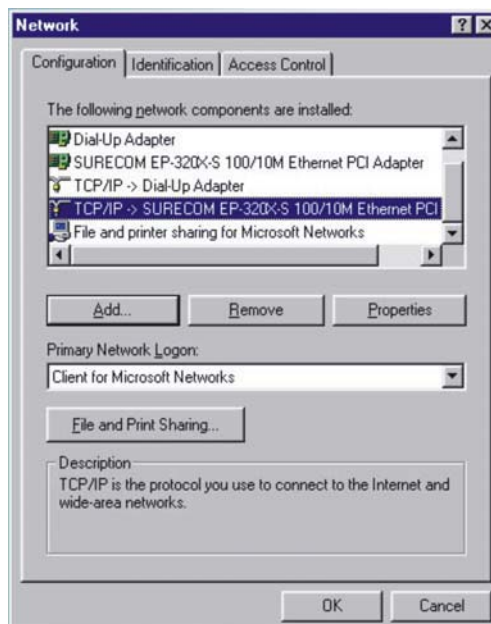
How to Configure the TCP/IP Network Protocol

Windows 98/Me:

1. Click on **Start-> Settings-> Control Panel-> Network**.



2. Click TCP/IP -> Ethernet Adaptor and click Properties.

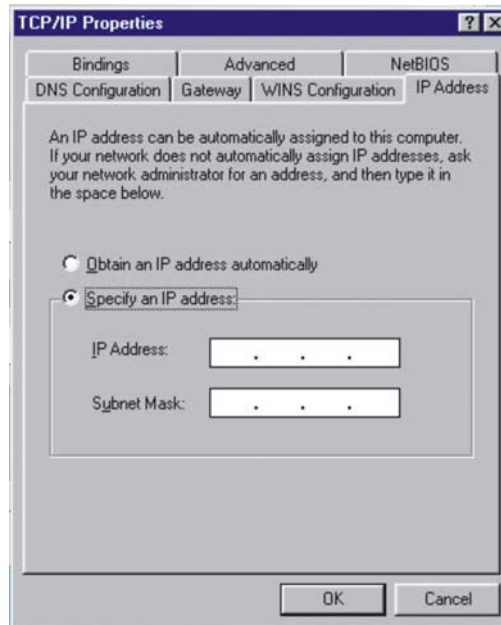




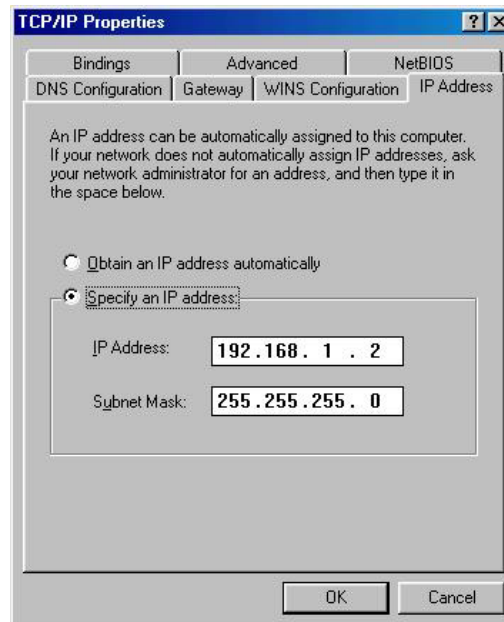
IP Protocol Setup

Net-Stor™ Network Storage Center

3. Click **IP Address** and click on **Specify IP Address**.



4. Type in the **IP Address**. Make sure you set the **Subnet Mask** to 255.255.255.0.



5. Click **OK**. At this point, you may be asked for your Windows disk. Follow the on-screen displays and then restart your computer.



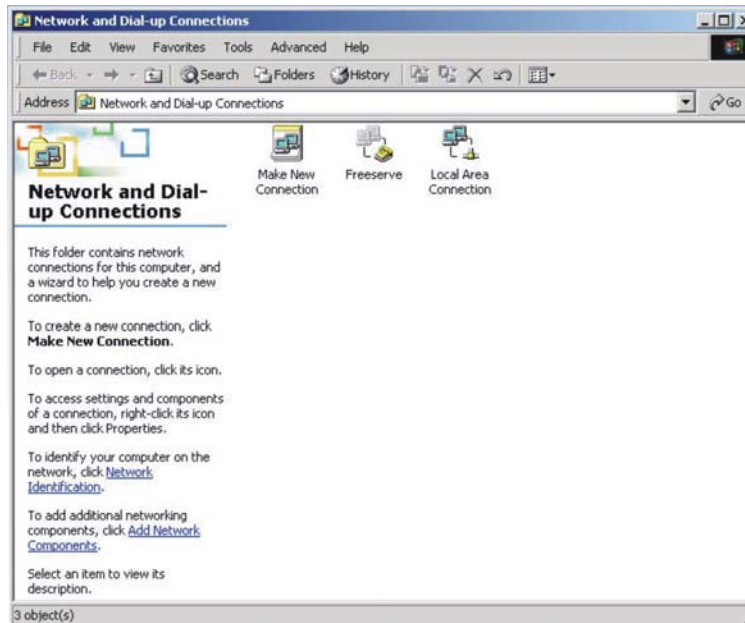
IP Protocol Setup

Net-Stor™ Network Storage Center

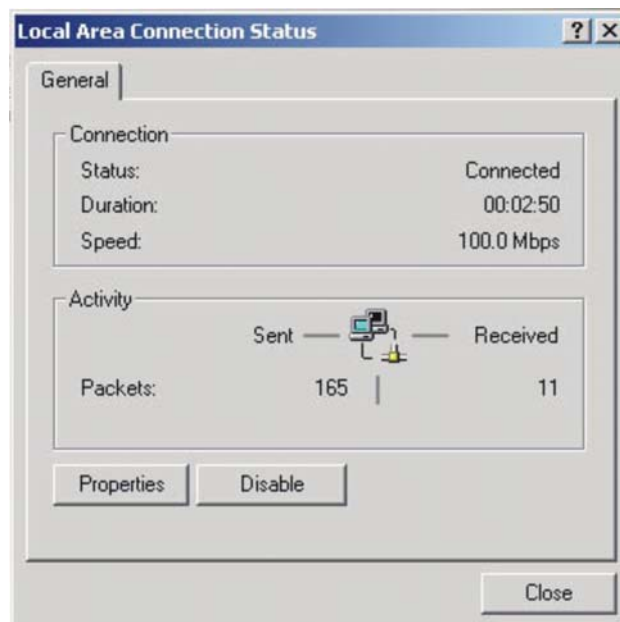
How to Configure the TCP/IP Network Protocol

Windows 2000:

1. Click on **Start-> Settings-> Network and Dial-up Connections**.



2. Choose **Local Area Connection** and click on **Properties**.

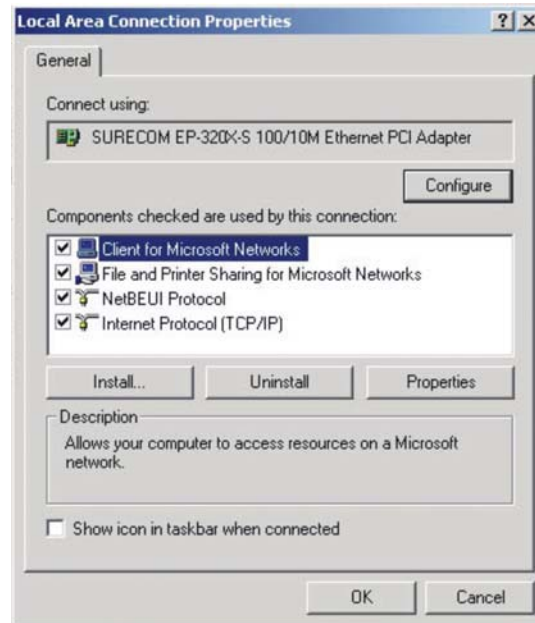




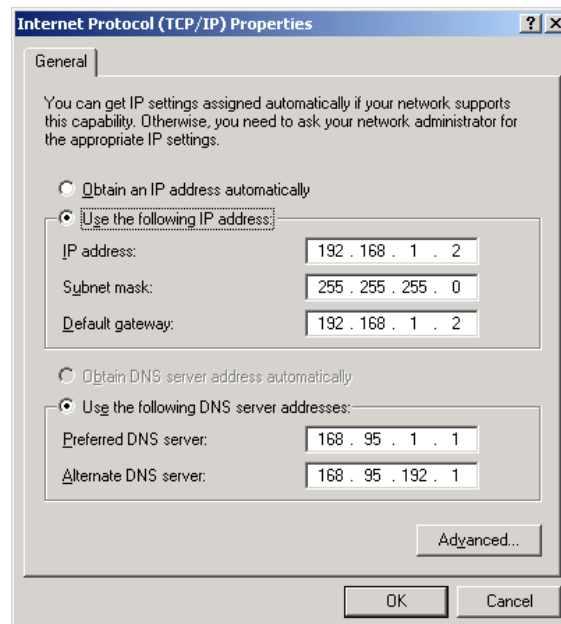
IP Protocol Setup

Net-Stor™ Network Storage Center

3. Click on **Internet Protocol (TCP/IP)** and then click on **Properties**.



4. Click on **Use the following IP address**. Make sure you set the **Subnet mask** to 255.255.255.0. Click **OK** and then **OK**, and restart your computer.





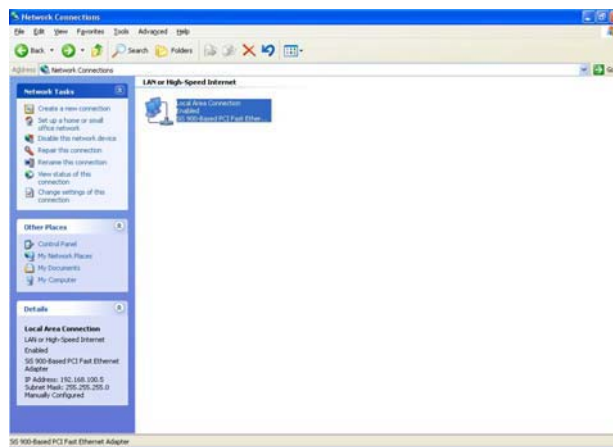
IP Protocol Setup

Net-Stor™ Network Storage Center

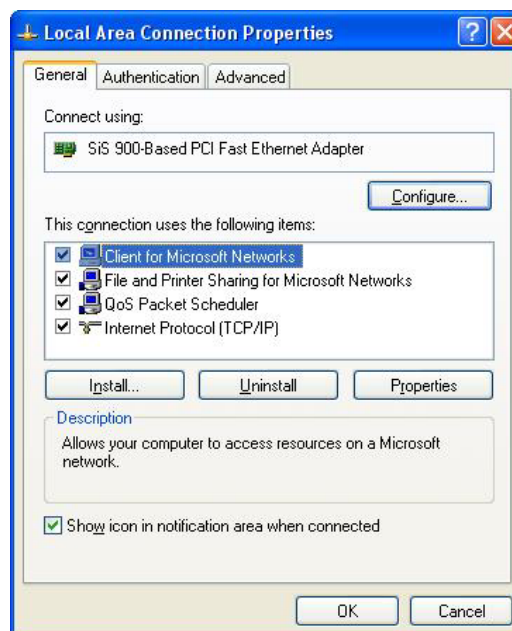
How to Configure the TCP/IP Network Protocol

Windows XP:

1. If you are in classic Start menu view, click on **Start->Settings->Control Panel->Network Connections**. If you are in standard Start menu view, click on **Start->Control Panel->Network Connections**.
2. Double click on **Local Area Connection**.



3. Choose **Internet Protocol (TCP/IP)** and then click on **Properties**. Click on **Use the following IP Address**.

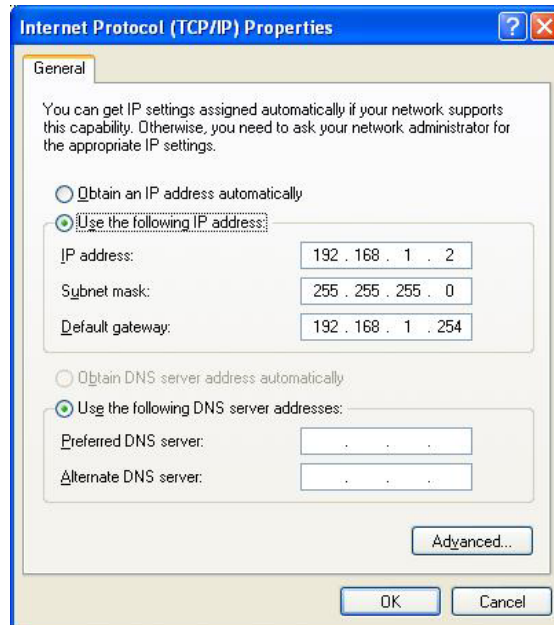




IP Protocol Setup

Net-Stor™ Network Storage Center

4. Key in the IP Address that you chose earlier. The subnet mask is entered automatically in Windows XP. Click **OK**.



Now the configuration of your PC's IP settings is complete. Please review the sections that follow to complete the hard drive installation and Quick Setup Wizard.

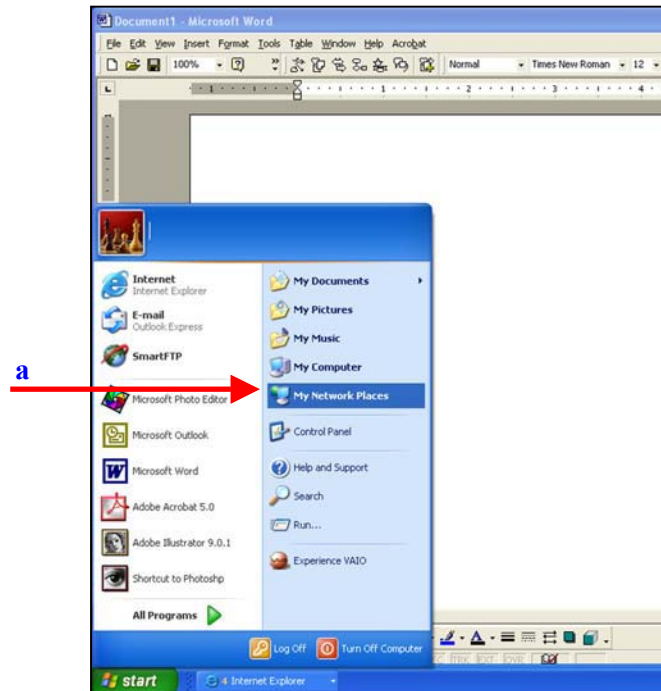


IP Protocol Setup

Net-Stor™ Network Storage Center

If you already have an established local area network, the following steps will allow you to determine the three common segments that the IP addresses of all devices on the network share.

- a. Click on **Start** in the bottom left corner of your screen. Then click on **My Network Places**.



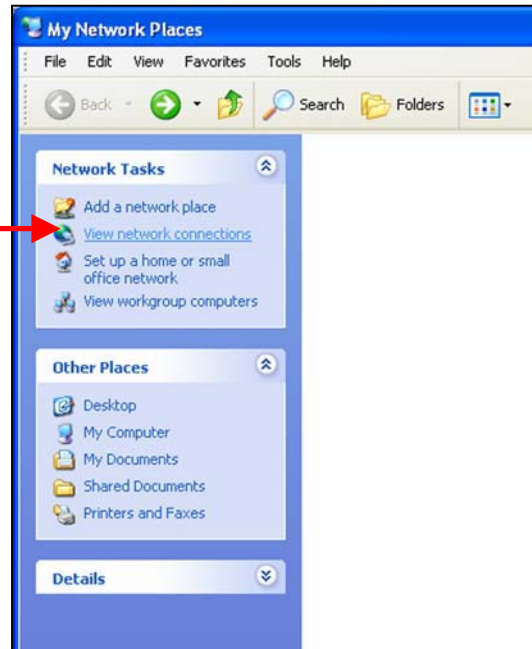


IP Protocol Setup

Net-Stor™ Network Storage Center

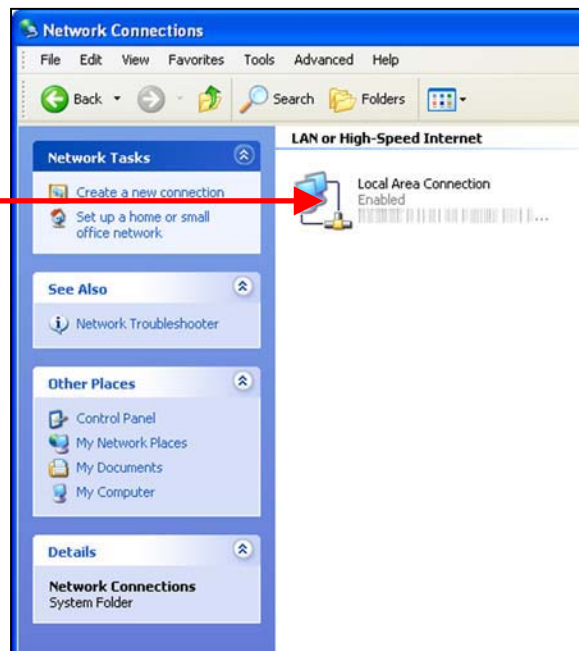
b. Click on **View Network Connections**.

b



c. In the **Network Connections** window, you should see an icon titled **Local Area Connection** (or something similar). You can access this icon in two ways: *a.* by clicking or double-clicking on it, or *b.* by right-clicking on it and then clicking on **Status** from the resulting menu.

c

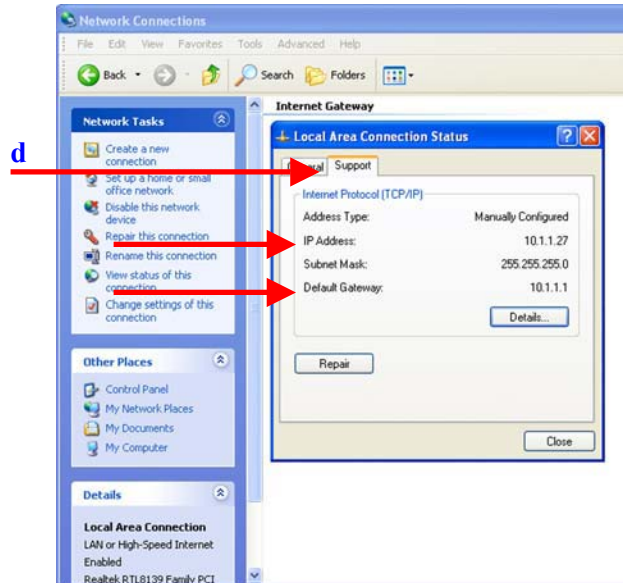




IP Protocol Setup

Net-Stor™ Network Storage Center

d. A window with the title **Local Area Connection Status** (or something similar) will appear. Click on the **Support** tab. Under the heading **Address Type**, you will find an **IP Address** line and a **Default Gateway** line. These two lines will have IP addresses with the first three octets in common. Use this information to set the IP address for your network camera. You will use these same three octets as the first three octets for the IP address of your network camera. The final octet will be a number between 0 and 254.



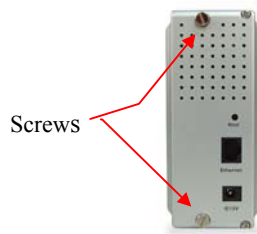


Hard Drive Installation

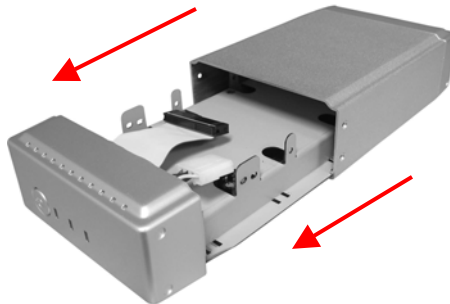
Net-Stor™ Network Storage Center

How to Connect Your Hard Drive to the Network Storage Center:

1. Loosen the two screws on the rear panel either using a screwdriver or by hand.

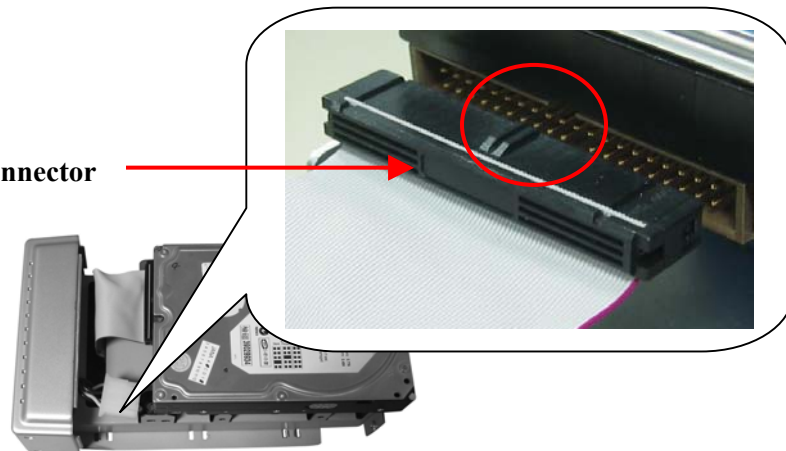


2. Grab the front panel and separate the hard drive holder from the case.



3. Your hard drive jumper should be set to **Master**. Different hard drives have different jumper settings. Please refer to your hard drive's user's manual for more information.
4. Insert the IDE connector into the IDE socket of the hard drive. Make sure Pin 1 on the cable is connected to Pin 1 on the hard drive socket. Pin 1 is the red or pink strip on the edge of an IDE cable. The IDE cables are designed to fit in only one direction, which will correspond to pin 1.

IDE Connector

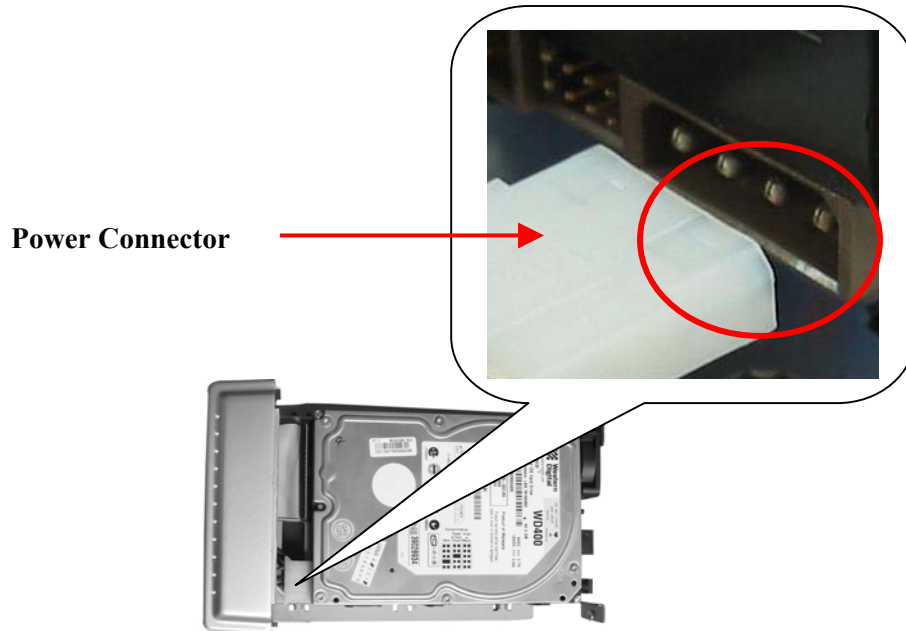




Hard Drive Installation

Net-Stor™ Network Storage Center

5. Push the power connector into the power socket of the hard drive, as shown. The power cable is designed to go in one way, to avoid any potential errors.



6. Secure the hard drive using the provided screws.
7. Push the hard drive and its holder back into the box and secure it with the two screws provided.



Quick Setup Wizard

Net-Stor™ Network Storage Center

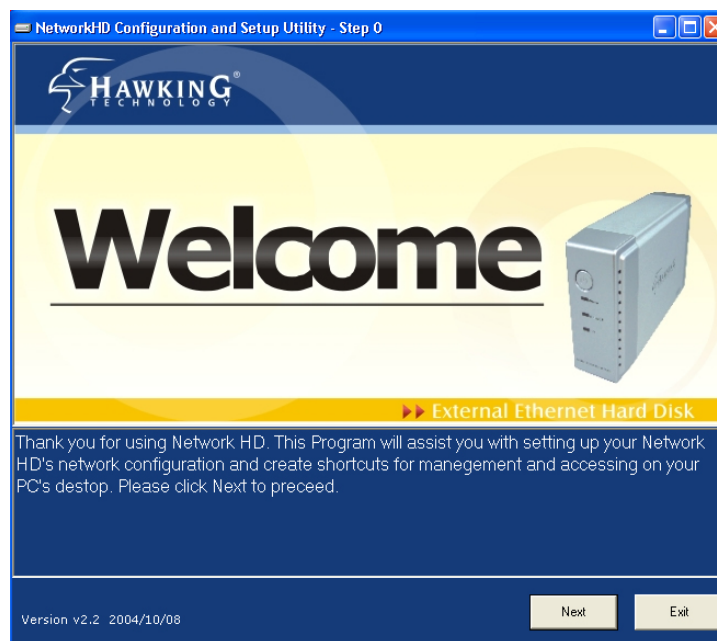
If you are using the Network Storage Center for the first time, the Setup Wizard will provide you with a simple and easy way to set up the device. The Setup Wizard will guide you through the connections of the necessary cables as well as the settings for network configuration.

Note: In the Setup Wizard, as well as the Network Storage Center's web user interface, you will frequently see the term "Network HD". It is interchangeable with the term "Network Storage Center" and both are used to describe the HNAS1. Please note, however, that "Network HD" is different from the term "HD" or "hard drive". "HD" or "hard drive" is used to describe a basic 3.5" IDE hard drive, not the Network Storage Center.

Please follow the steps outlined below:

1: Activate The Utility Software

Place the utility CD (included with the HNAS1 package) into your CD-ROM drive and wait for the Auto-run menu to appear on your screen. Then click on **Quick Setup Wizard**. If the utility does not activate automatically, click the **Start** button in the lower left corner of your screen, select **Run**, type **D:\autorun.exe** (where D is the letter of your CD-ROM drive) into the open window and click **Enter**.



Welcome Page

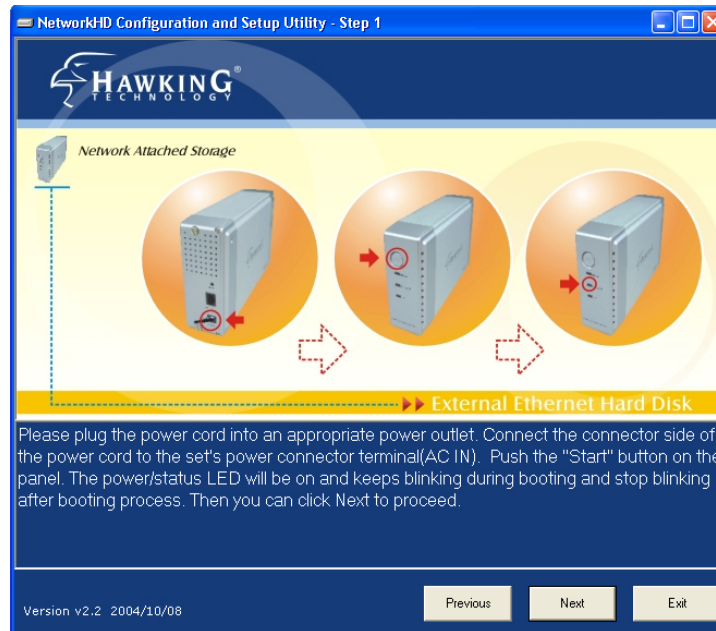
- The figure shown above is the Welcome page for the **Quick Setup Wizard**. Follow the program, as shown in the pages that follow, to complete the LED check, installation of basic cables, and network configuration.
- Click **Next** to continue.



Quick Setup Wizard

Net-Stor™ Network Storage Center

2: Follow the Setup Wizard to Complete Installation



Power On

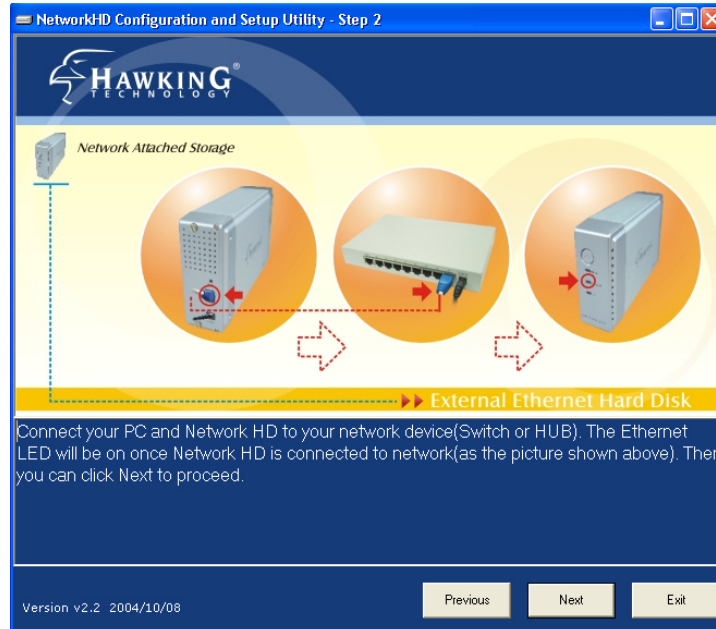
- Connect the power cord and press the “Power” button on the front panel of the Network Storage Center.
- Ensure that the “Power” LED is lit green.

Note: To power off the device, hold down the “Power” button for at least five seconds until the “Power” LED starts blinking and then turns off.



Quick Setup Wizard

Net-Stor™ Network Storage Center



LAN Connection

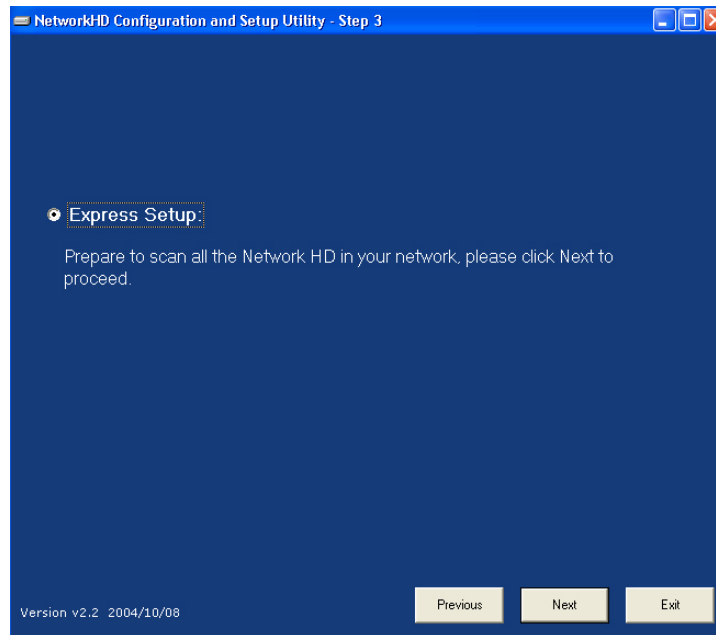
- Connect the Network Storage Center and router/switch (or PC) with an RJ-45 Ethernet cable.
- Ensure that the “Link/Act” LED is lit green.



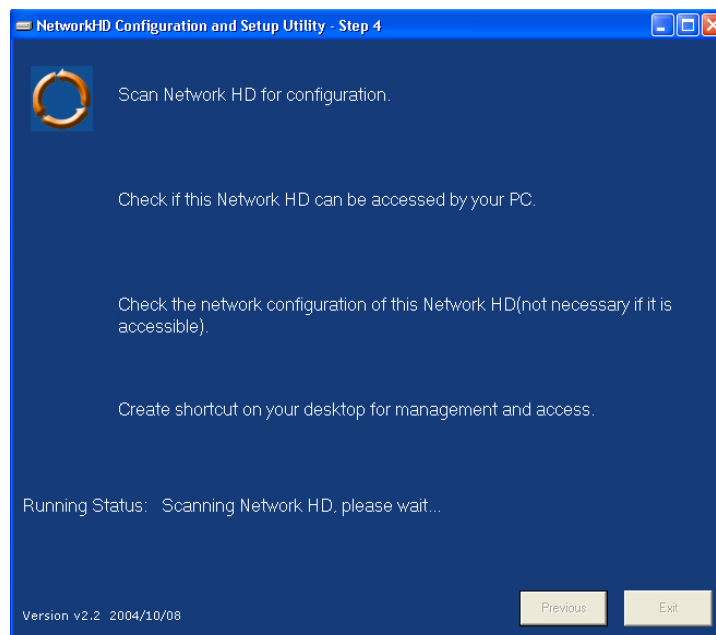
Quick Setup Wizard

Net-Stor™ Network Storage Center

3: Click “Next” to start the Scan



Prepare to Scan



Scan Hard Drives on the Network

- The Setup Wizard will scan your network to locate all available Network Storage Centers (or Network HDs)

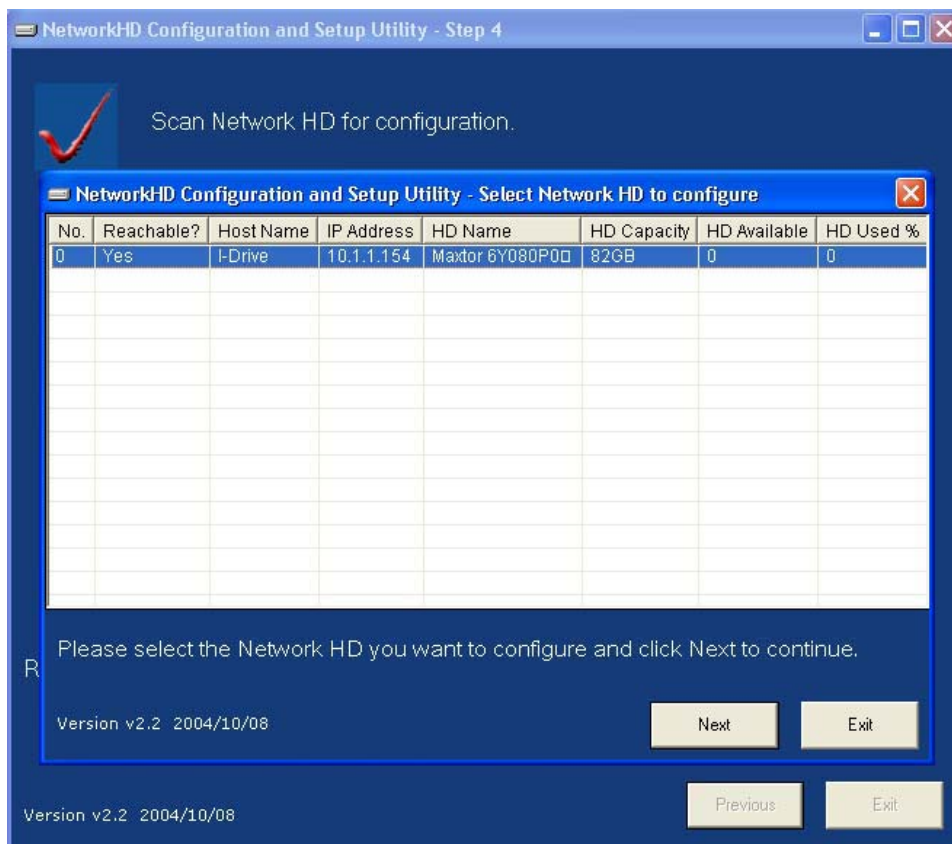


Quick Setup Wizard

Net-Stor™ Network Storage Center

- Refer to the figure on the following page. Select the Device you want to set up and Click “Next”.

Reachable	Status	Action
NO	The Network HD’s network settings are not compatible with your LAN.	Changes the network settings and creates two shortcuts to access and set up the Network HD
YES	The Network HD’s network settings are compatible with your LAN	Creates two shortcuts to access and set up the Network HD



Hard Drive(s) Found

- The Setup Wizard should automatically assign to the device an IP address that is consistent with your existing network settings.



Quick Setup Wizard

Net-Stor™ Network Storage Center

NetworkHD Configuration and Setup U...

User Name: admin

Password: admin

Note: Please read the manual for instruction.
The factory default Username and Password for management are "admin" in lower case.

Next Cancel

User name/Password Reminder

- When the box shown above appears, please input “**admin**” in both fields, as these are the default values for both the User Name and Password. For more information, please refer to the user’s manual.

NetworkHD Configuration and Setup Utility - Step 4

✓ Scan Network HD for configuration.

✓ Check if this Network HD can be accessed by your PC.

✓ Check the network configuration of this Network HD(not necessary if it is accessible).

✓ Create shortcut on your desktop for management and access.

Running Status: Connection is successful, the network configuration of this Network HD has been set.

Version v2.2 2004/10/08

Previous Exit

Settings



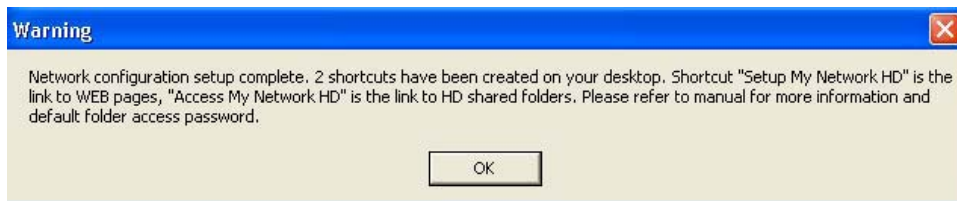
Quick Setup Wizard

Net-Stor™ Network Storage Center

- The Setup Wizard should complete successfully. This will be indicated by the red check marks in the figure on the previous page.

If the Setup Wizard does not complete successfully, please try the following:

- Check your network or PC settings to make sure that they are configured properly
- Re-start and proceed through the Setup Wizard again
- Refer to the user's manual (on the CD) for help



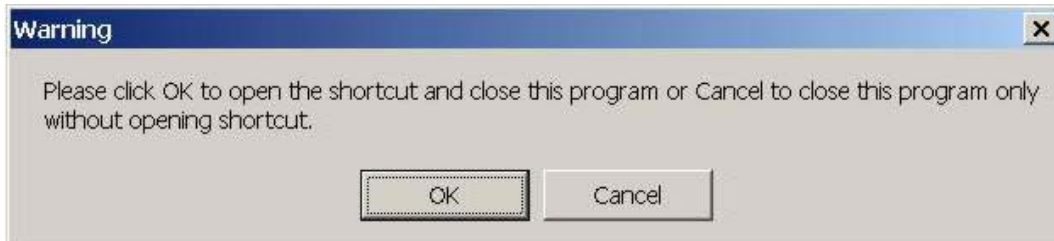
Please read this carefully.

- If the Setup Wizard completes successfully, the message shown above will appear. Please read it carefully and click **OK**.
 - The shortcut “Setup My Network HD” will connect you to the device’s web user interface when you double-click on it. Again, the default User Name and Password are both “**admin**”.
 - The shortcut “Access My Network HD” will allow you to access the drive and shared folders when you double-click on it.



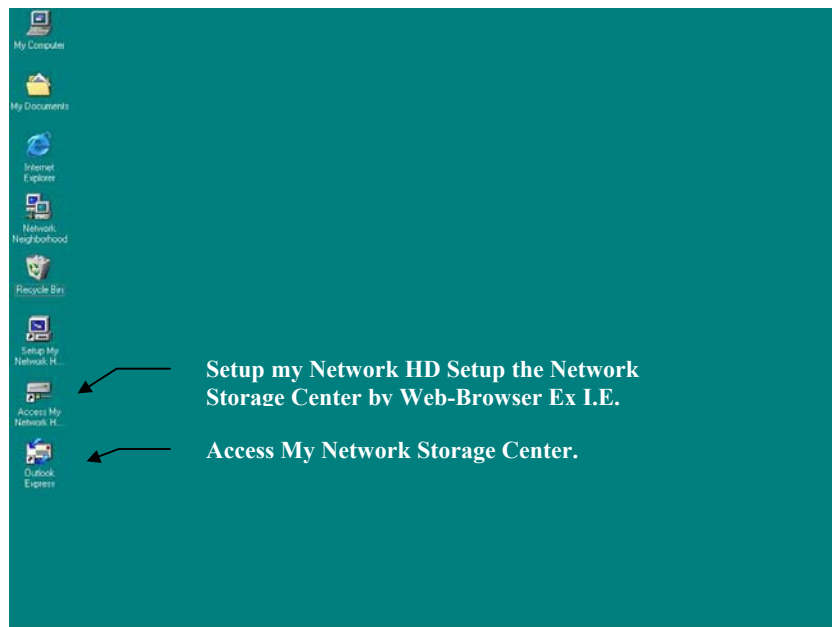
Quick Setup Wizard

Net-Stor™ Network Storage Center



Click OK to set up your Network Storage Center

Click **OK** to access the device's web-based user interface, or click **Cancel** to close the Setup Wizard program without opening the webpage.



Icons Created

When you see that the two icons have been created on the desktop of your PC, you can start using the Network Storage Center or configure additional settings via the web-based user interface. Regarding the settings, please refer to the “Management Guide” in the user’s manual.

Note: It is recommended (but not necessary) that you map the Network HD to your PC as a network drive. The device will then automatically reconnect and always be available as a network drive whenever you re-start your PC. For more details, please see the “Setup Tip” that follows the “Management Guide” section of this user’s manual.

Regarding the steps for access and setup, please follow the instructions in the pages that follow.



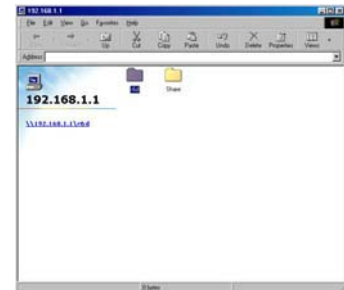
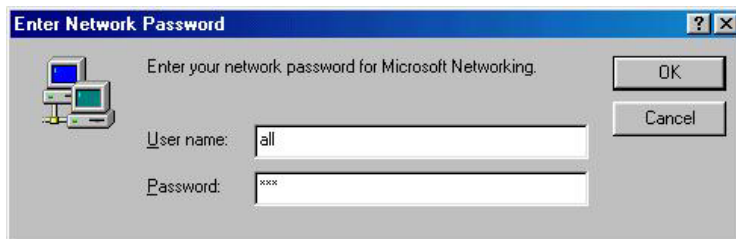
Access the Device

Net-Stor™ Network Storage Center

1. Click the “Access my Network HD” icon to access the Network Storage Center. There are three pre-defined accounts for you to use: all, power, guest. By default, their authorization levels are set as follows:
 - a. ALL=Read/Write
 - b. Power=Read/Write
 - c. Guest=Read Only

The user can adjust the authorization levels of these accounts by clicking on **Share** in the “Folder Configuration” page within the “Share” section of the device’s webpage.

2. By default, you can enter “all”, “power”, or “guest” for the Username and Password. For example:
 - Username: all
 - Password: all





Management Guide

Net-Stor™ Network Storage Center

Set Up the Network Storage Center

In order to configure the Network Storage Center via your computer using a web browser, please follow the steps listed below:

1. Double click the “Setup my Network HD” icon on your desktop screen.
2. Type the device’s new IP address into the URL web address location and press **Enter**.

The Username and Password window will appear.

- Enter **admin** in the User Name location (default value).
- Enter **admin** in the Password location (default value).
- Click the “**OK**” button.

Enter Network Password

Please type your user name and password.

Site: 192.168.1.1

Realm: Network HardDisk

User Name: admin

Password: xxxxxx

Save this password in your password list

OK Cancel



Management Guide

Net-Stor™ Network Storage Center

Homepage

The Network Storage Center has a web-based graphical user interface (GUI) that can be accessed using a standard HTML (HTTP v1.0) compliant browser.

The Network Storage Center's Homepage

Home

Status

Host name: the term used to identify the Network Storage Center in “My Neighborhood”

IP-address: the Network Storage Center's IP address

Version: the current version of the firmware

Configuration

To link to the item you want, click on the appropriate link.



Management Guide

Net-Stor™ Network Storage Center

Status Details

To see more info about the Network Storage Center, such as percent of hard drive used, “up-time”, Samba users, and FTP users, please click on “Click here for more information...” on the homepage.

- HD used (%): the percentage of the total hard drive space that is currently in use
- Up-time: the amount of time your Network Storage Center has been in use
- Samba (SMB) Users: the number of members using the Network Storage Center
- FTP Users: the number of members using the Network Storage Center by FTP client

Note: The Network Storage Center allows up to a maximum of five online Samba (SMB) users and up to a maximum of five online FTP users.

Status	
Host Name:	I-Drive
IP Address:	10.1.1.154
HD used(%):	0.02% (157G)
Up-time:	2 hour 22 minute
Version:	v1.00(10-21-2004)-ext3
Samba Users:	0
FTP Users:	0

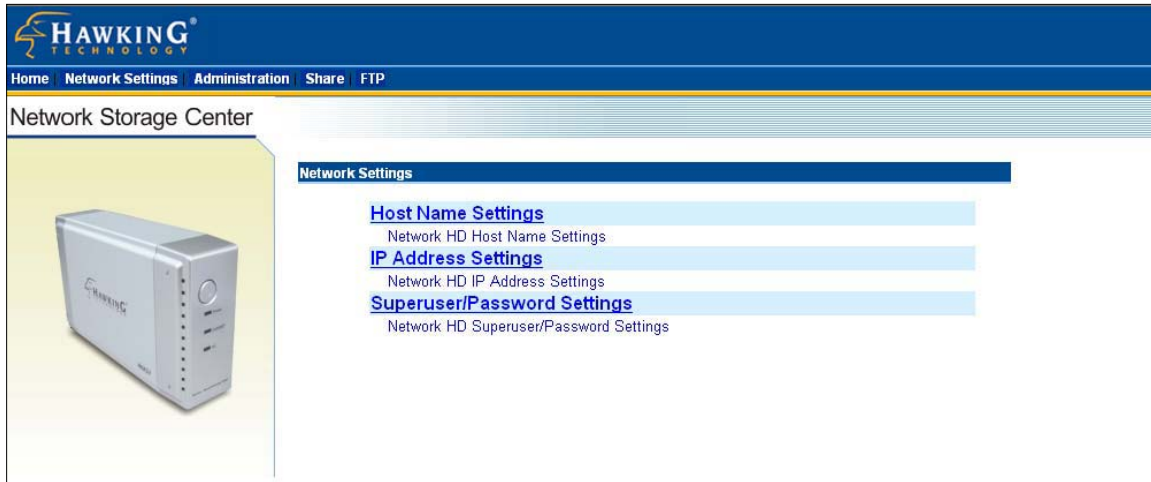


Management Guide

Net-Stor™ Network Storage Center

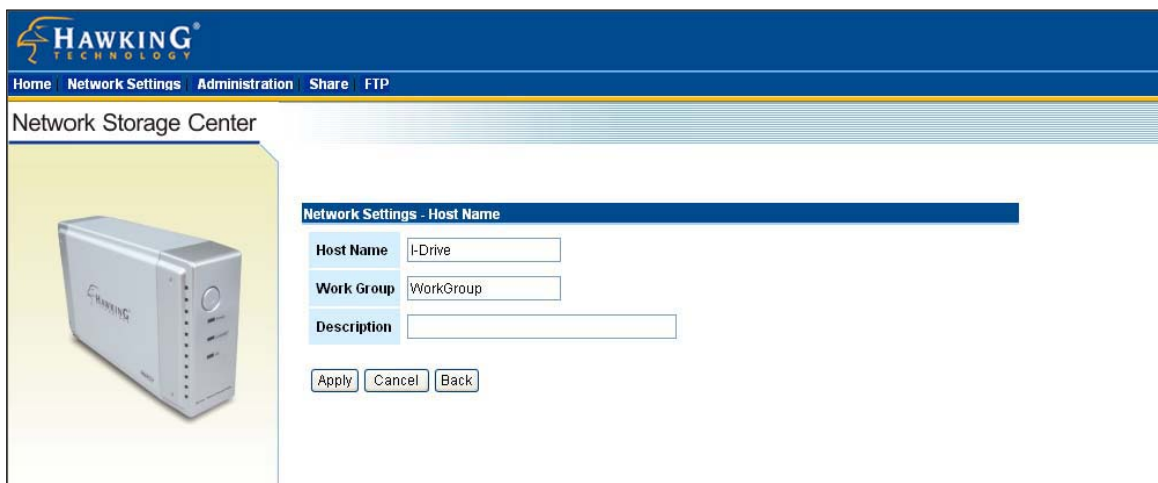
Network Settings

In the Network Settings page, you can set up or change the networking configurations for the device, including Host Name, IP Address and SuperUser/Password. After you finish configuring the settings, the Network Storage Center will appear in “My Neighborhood”.



Host Name

Item	Configuration
Host Name	Network Storage Center's identification in “Workgroup” or “My Neighborhood”
Work Group	Shows name of the workgroup in which the Network Storage Center is located
Description	Brief description of the Network Storage Center (i.e., IP address, location, etc.)





Management Guide

Net-Stor™ Network Storage Center

IP Address

Item	Configuration
IP Address	The Network Storage Center's IP Address
Subnet Mask	The Subnet Mask must be compatible with the other devices on your network
Gateway	Enter the Router's or Gateway's IP Address on your network
DNS Server	Please specify the domain name server IP address that your Internet Service Provider (ISP) gave you

The screenshot shows the web interface for the Network Storage Center. At the top, there is a navigation menu with links for Home, Network Settings, Administration, Share, and FTP. The main content area is titled "Network Storage Center" and features a photograph of the device on the left. On the right, the "Network Settings - IP Address Settings" section contains four input fields: IP Address (10.1.1.154), Subnet Mask (255.255.255.0), Gateway (10.1.1.1), and DNS Server (empty). Below these fields are three buttons: Apply, Cancel, and Back.



Management Guide

Net-Stor™ Network Storage Center

Superuser/Password

In this page, you can set up the **administrator's** User Account/Password. You will need this to access the web-based UI to set up and configure the Network Storage Center. Only the administrator or “superuser” has access rights to change the Network Storage Center's configuration.

Item	Configuration
SuperUser name	Username of the Network HD administrator to access the Web-based UI
Old Password	Enter your old password here
New Password	Enter the New Password here
Confirm Password	Enter the New Password again to confirm

The screenshot shows the web interface for the Hawking Network Storage Center. The top navigation bar includes 'Home', 'Network Settings', 'Administration', 'Share', and 'FTP'. The main content area is titled 'Network Storage Center' and features a product image on the left. The central section is titled 'Network Settings - Superuser' and contains the following text: 'Please provide a superuser name and password (between 4-16 characters each). Periodically change the superuser name and password to ensure security.' Below this text are four input fields: 'Superuser name' (with 'admin' entered), 'Old Password', 'New Password', and 'Confirm Password'. At the bottom of the form are three buttons: 'Apply', 'Cancel', and 'Back'.



Management Guide

Net-Stor™ Network Storage Center

Administration

On this page, you can manage the Network Storage Center using the following tools:

- System Restart
- HD Format
- Factory Default Reset
- Firmware Upgrade
- System Time
- Character Set

HAWKING TECHNOLOGY

Home | Network Settings | Administration | Share | FTP

Network Storage Center

Administration

- [System Restart](#)
Reboot Network HD
- [HD Format](#)
Format Network HD
- [Factory Default Reset](#)
Restore Network HD to factory default configuration
- [Firmware Upgrade](#)
Upgrade Network HD firmware
- [System Time](#)
Adjust the system time
- [Character Set](#)
Supports the correct character set code pages in SAMBA

Restart System

To Restart the Network Storage Center, Click “Yes” (see figure below). Do not power off the device before the system restart is completed.

HAWKING TECHNOLOGY

Home | Network Settings | Administration | Share | FTP

Network Storage Center

Administration - System Restart

Do you want to restart the system ?

This may take a few minutes.
Please wait in order to ensure that the operating environment is safe.

Note: When the reboot is completed, it will return to the "Home" page.



Management Guide

Net-Stor™ Network Storage Center

HD Format

When you see this message “**HD Unable to use**” in the “**(%) of HD used**” field (see figure below), it means that your hard drive is a new, unformatted hard drive or it is not formatted to EXT3. In this case, you will need to format it.

Caution: When you click “Yes” to the question “Do you want to format the hard drive”, partitions (if any) on your hard drive will be formatted and all your data will be erased.

The screenshot shows the Network Storage Center interface. On the left is an image of the device. On the right, a 'Status' table displays the following information:

Host Name:	I-Drive
IP Address:	10.1.1.165
(%) of HD used:	HD Unable to use
Up-time:	1 hour 11 minutes
Version:	v1.00(11-15-2004)-ext3
Samba Users:	0
FTP Users:	0

A 'Back' button is located at the bottom right of the status area.

To format the hard drive, click “Yes” (see figure below).

The screenshot shows the 'Administration - HD Format' page. It features a question: "Do you want to format the hard drive ?" with 'Yes' and 'No' buttons. Below the question, it states: "The device only supports EXT3. This may take a few minutes. Please wait in order to ensure a safe operating environment." A note at the bottom reads: "Note: When the HD formatting is completed, it will return to the 'Home' page."

Please wait during the formatting process. Do not power off the system or close the browser. During the formatting process, a status bar will appear that displays what percentage of the formatting has been completed. After the format process completes, the system will restart automatically.

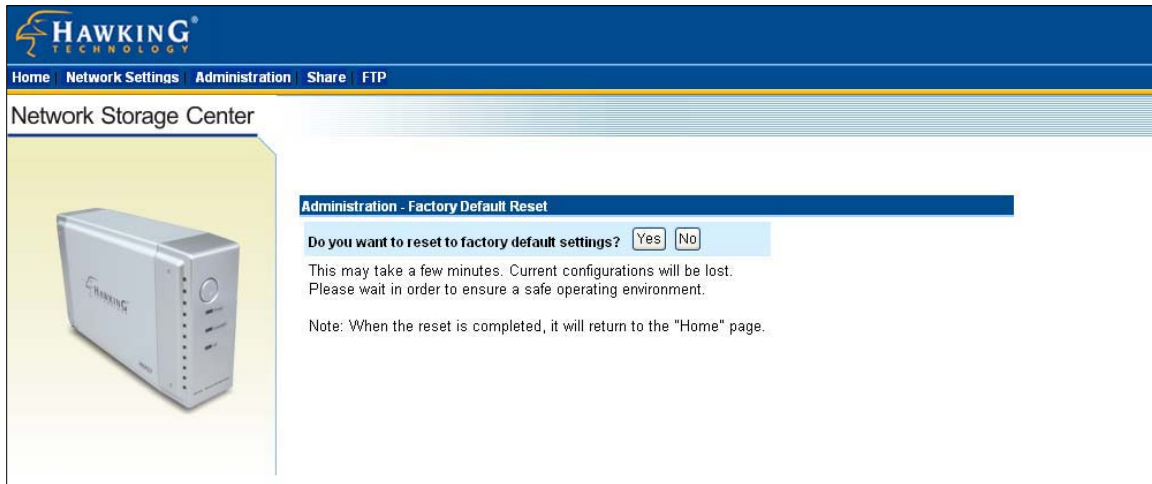


Management Guide

Net-Stor™ Network Storage Center

Factory Default Reset

To restore the Network Storage Center to its default configuration, click “Yes” (see figure below). Do not power off the device before the system is ready.

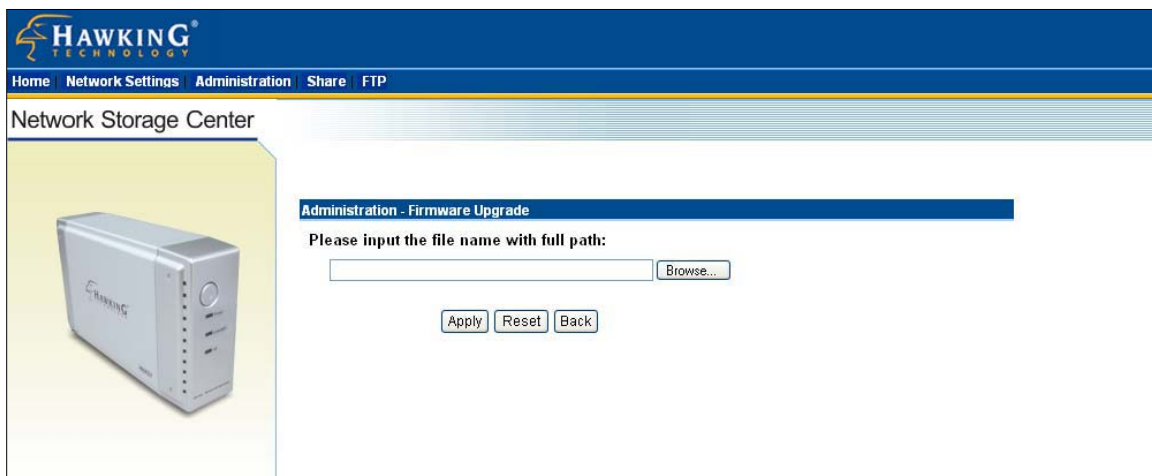


Firmware Upgrade

To upgrade the Firmware:

1. Click Browse...
2. Select the firmware file you want to you for the upgrade process.
3. Click Apply

Caution: Do not power off the device during the upgrade process, as this could damage it.



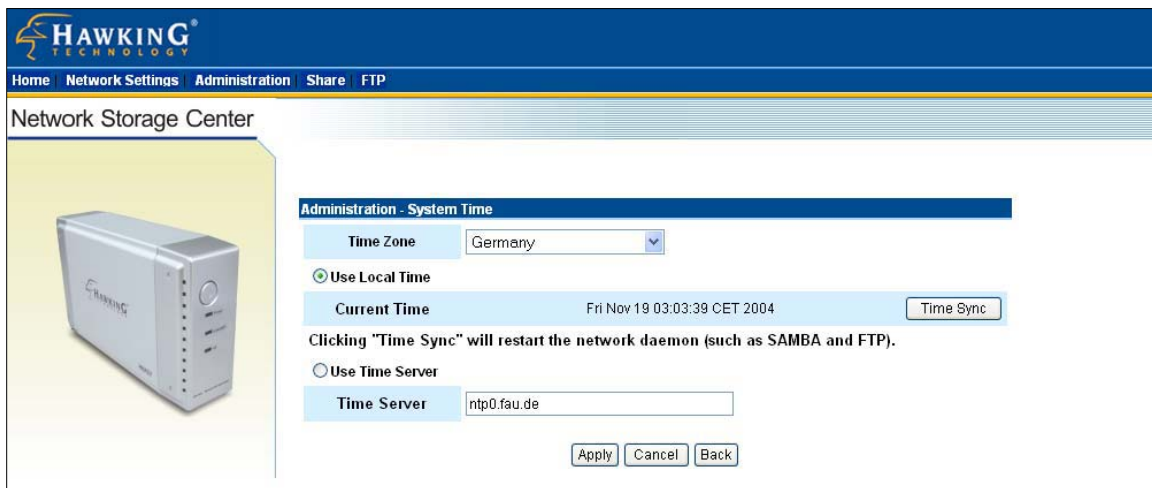


Management Guide

Net-Stor™ Network Storage Center

System Time

1. If your system is not connected to the Internet, click “Time Sync” to synchronize the current time with your PC’s.
2. If your system is connected to the Internet, you can use “Time Server” and select “Time Zone” to perform the time synchronization. Please remember to click “Save”. You will see the changes at the next system boot.



Character Set

If you need to make changes to the character set, you can choose the correct character set for your file system by scrolling down the menu, selecting the appropriate set, and the clicking “Save”.



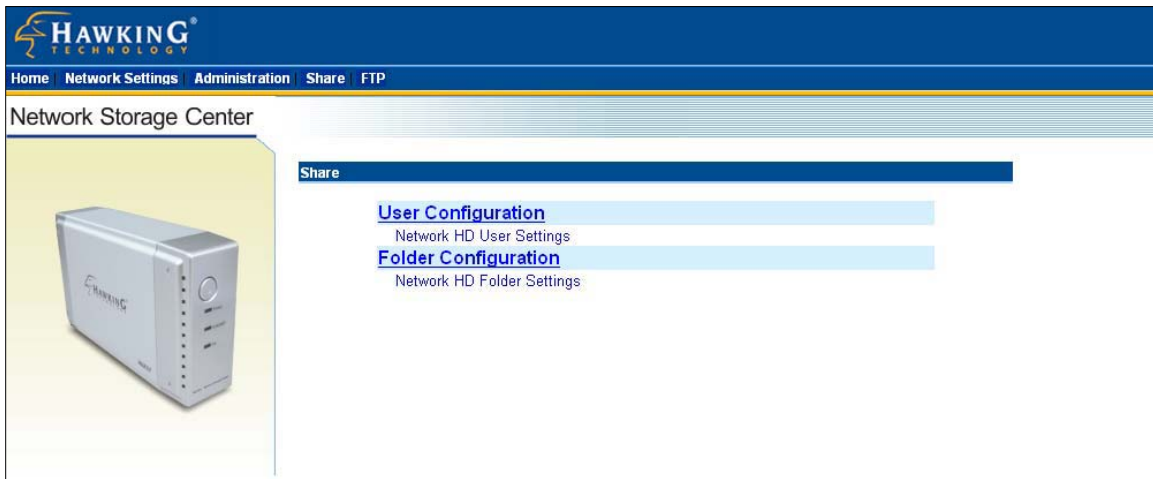


Management Guide

Net-Stor™ Network Storage Center

Share

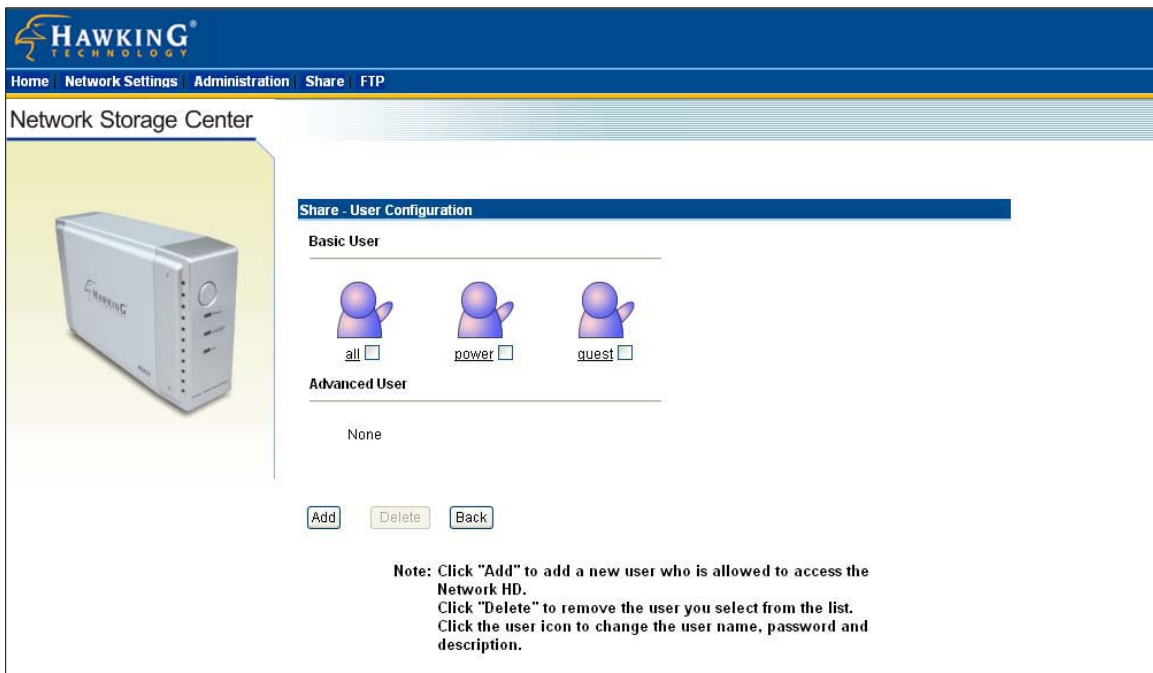
From this section, you can manage the Network Storage Center's users and folders.



User configuration

On this page, you can add and remove users, and set up the user configuration. You can add as many users as you need; the restriction on the number of users only applies to five *concurrently connected* users. The three default accounts cannot be removed.

Add User





Management Guide

Net-Stor™ Network Storage Center

1. Click the **Add** button.

The screenshot shows the 'Share - Add User' configuration page in the Net-Stor Network Storage Center web interface. The page includes a navigation menu with 'Home', 'Network Settings', 'Administration', 'Share', and 'FTP'. The main content area features a sidebar with a product image and a central form for adding a user. The form fields are as follows:

User Name:	<input type="text" value="NewUser"/>
New Password:	<input type="password" value="••••••"/>
Confirm Password:	<input type="password" value="••••••"/>
User Description:	<input type="text" value="NewUser"/>
FTP Access:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Accessed Level:	<input checked="" type="radio"/> Supervisor <input type="radio"/> General User
FTP Folder:	<input type="text" value="Share"/>

At the bottom of the form are three buttons: 'Apply', 'Undo', and 'Back'.

2. Enter the appropriate information for: User Name, New Password, Confirm Password, and User Description
3. Decide on the FTP Access and Access Level (Supervisor is for a web-master or someone similar; General User is for an end-user or someone similar). When FTP Access is enabled, this user can access the FTP with his/her user name and password
4. Choose the default folder for this user.
5. Click **Apply** to save.

Note: To change a user's configuration, click on the User Name link in the "User Configuration" page (see figure on previous page). Then enter the new information in all the desired fields except for "User Name" (see figure above).



Management Guide

Net-Stor™ Network Storage Center

Delete User

To remove the user's account to stop the right of using the Network HD,

1. Select the User you want to remove by clicking the check box next to the user name.
2. Click **Delete** to remove.

The screenshot shows the 'Share - User Configuration' page in the Hawking Network Storage Center. The page has a blue header with the Hawking Technology logo and navigation links: Home, Network Settings, Administration, Share, and FTP. Below the header, there is a section for 'Network Storage Center' with an image of the device. The main content area is titled 'Share - User Configuration' and is divided into two sections: 'Basic User' and 'Advanced User'. Under 'Basic User', there are three users: 'all', 'power', and 'quest', each with an unchecked checkbox. Under 'Advanced User', there is one user: 'newuser', with a checked checkbox. At the bottom of the page, there are three buttons: 'Add', 'Delete' (highlighted in yellow), and 'Back'.



Management Guide

Net-Stor™ Network Storage Center

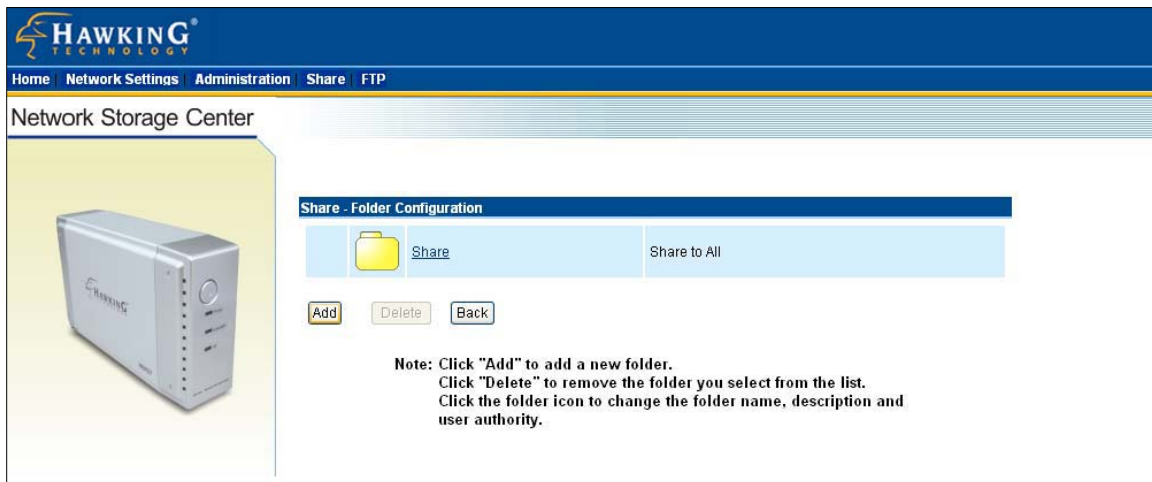
Folder Configuration

In this section, you can add and delete folders, as well as set up the authentication of users.

Add Folder

To add a new folder for users to share:

1. Click **Add** to add a new folder.



2. Enter the Folder Name and Description
3. Click **Apply** to save.





Management Guide

Net-Stor™ Network Storage Center

Delete Folder

To remove a folder and files inside

1. Select the folder you want to remove by clicking on the check box next to the folder's name.
2. Click **Delete** to remove.

HAWKING TECHNOLOGY

Home Network Settings Administration Share FTP

Network Storage Center

Share - Folder Configuration

<input type="checkbox"/>	Share	Share to All
<input checked="" type="checkbox"/>	Video	Video Files

Note: Click "Add" to add a new folder.
Click "Delete" to remove the folder you select from the list.
Click the folder icon to change the folder name, description and user authority.



Management Guide


Net-Stor™ Network Storage Center

Change the User Authentication for a Folder

Every user has a certain type of access privilege to use the Network Storage Center. This access privilege decides what kinds of actions a user can take, for example reading or re-writing files and folders on the Network Storage Center. There are three privilege mode options for each user:

- Non-access
The User cannot access the folder
- Read-only
The User can only read files from this folder
- Read & write
The User is able to read and write files to and from this folder





Share - Folder - "Video" limits of authority

 **Folder Name:** Video

Folder Description: Video Files

Please set user's limit for this folder!

Open Mode
 No access for all users
 Only Read access for all users
 Read/Write access for all users

 all	<input type="radio"/> Non-access <input checked="" type="radio"/> Read only <input type="radio"/> Read&write
 power	<input type="radio"/> Non-access <input checked="" type="radio"/> Read only <input type="radio"/> Read&write
 guest	<input type="radio"/> Non-access <input checked="" type="radio"/> Read only <input type="radio"/> Read&write
 newuser	<input type="radio"/> Non-access <input checked="" type="radio"/> Read only <input type="radio"/> Read&write

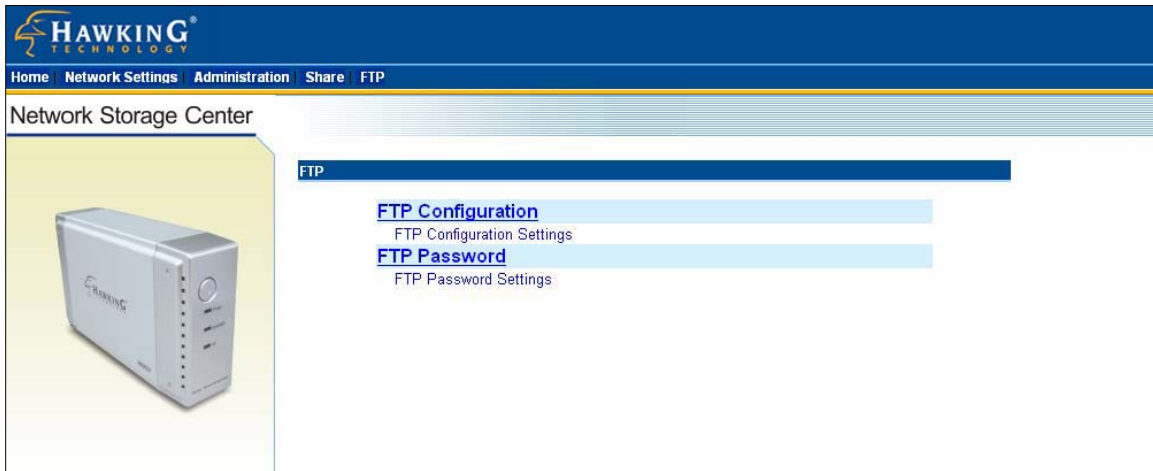


Management Guide

Net-Stor™ Network Storage Center

FTP

For remote access or backup, you can utilize FTP Client software to use the Network Storage Center.



FTP Configuration

To change configurations such as user limitation, service port number, length for timeout, and anonymous user restrictions, click on **FTP Configuration**.

Items	Meaning	How to...
Maximum Unit number	Maximum number of concurrently connected FTP users, from 1 to 5	Enter the member number.
Port Number	Decide on the FTP Service port Number you need	Enter the FTP Port number. The default number is 21, if you do not make any changes to this field or leave it blank.
Timeout	The length of time (in minutes) before the FTP connection times out	Enter the length of time you want (in minutes). The default is 15 minutes, if you do not make any changes to this field or leave it blank.
Allow Anonymity	Allow anonymous user accounts	Choose Yes to enable or No to disable



Management Guide

Net-Stor™ Network Storage Center

HAWKING
TECHNOLOGY

Home Network Settings Administration Share FTP

Network Storage Center

FTP Configuration

Maximum Unit Number

Port Number

Timeout Minutes

Allow Anonymity Yes No

FTP Password

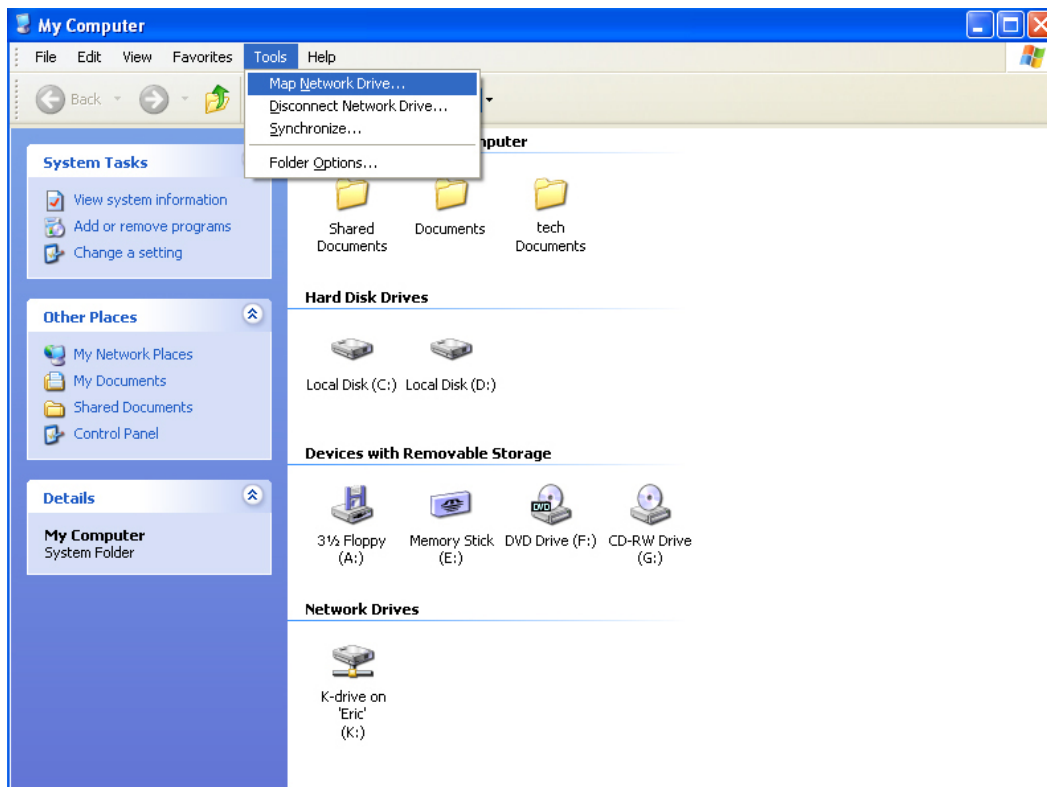
In this section, you can set up the FTP account password. The Default User name is “ftpuser”, and the default password is “**abc123**”. Please note that there are three rules for setting the password:

1. You cannot include the word “FTP”.
2. You must use **at least one number** in the password string.
3. The new password must be at least 6 characters up to a maximum of 16 characters.

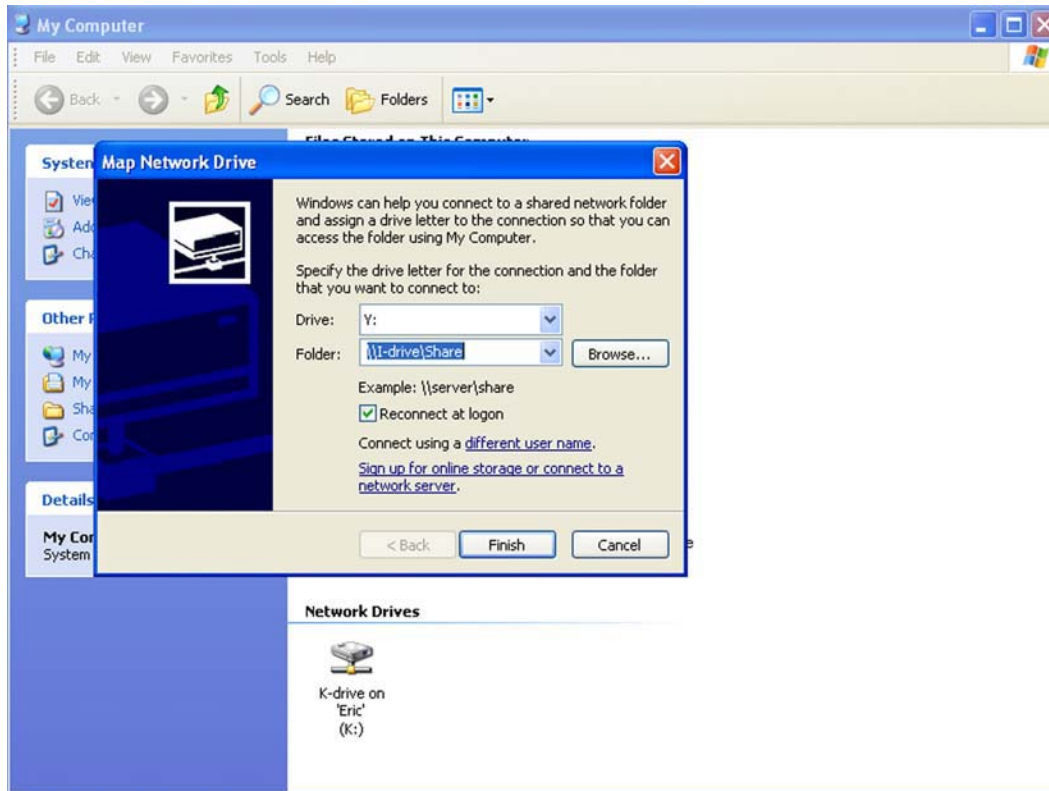
It is recommended (but not necessary) that you map the Network Storage Center to your PC as a network drive. The device will then automatically reconnect and always be available as a network drive whenever you re-start your PC.

You can do this by following the steps below:

1. From the **Start** menu, click on **My Computer**. When the window appears, click on **Tools** in the menu at the top of the window.

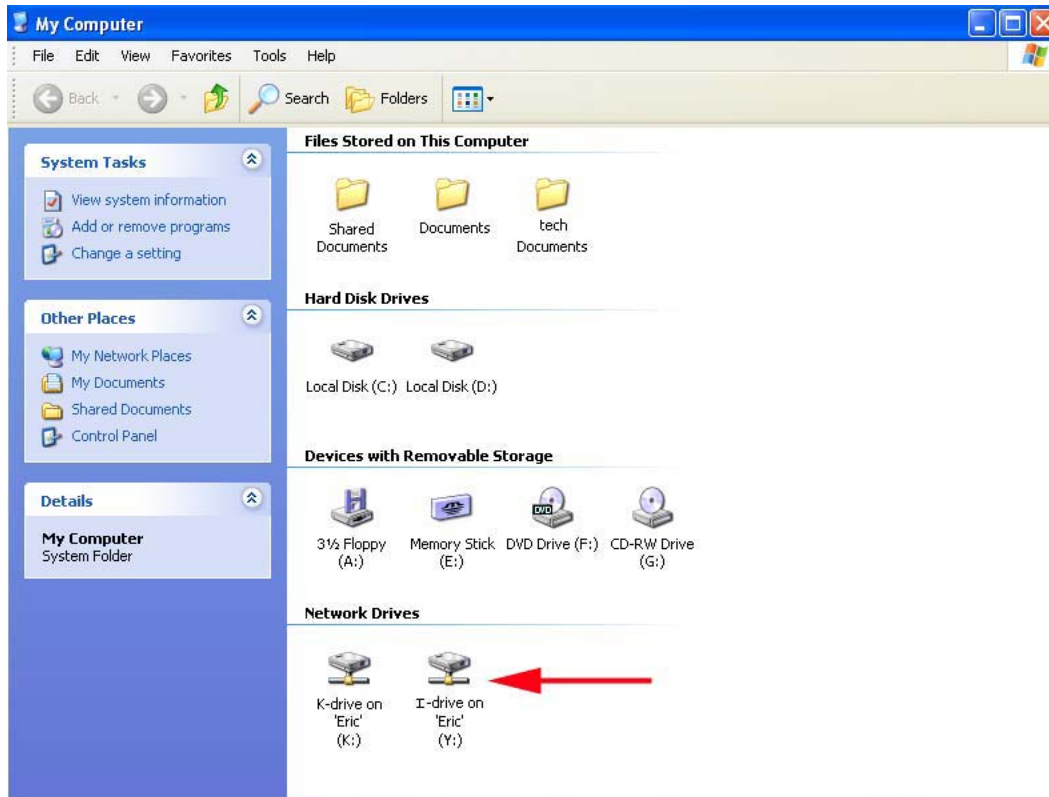


-
2. A new window will appear and will ask you to specify a drive letter for connection, and the folder that you would like to connect to. An example is shown below.



-
-
3. Click **Finish**. You will be prompted to enter a user name and password. In these fields, please enter the access information for one of the advanced users you added earlier. (Please refer to the “Management Guide” section of this user’s manual. This will complete the mapping process.

- An icon similar to the one indicated by the red arrow in the figure below will appear. You will now always be able to access the drive from “My Computer”.



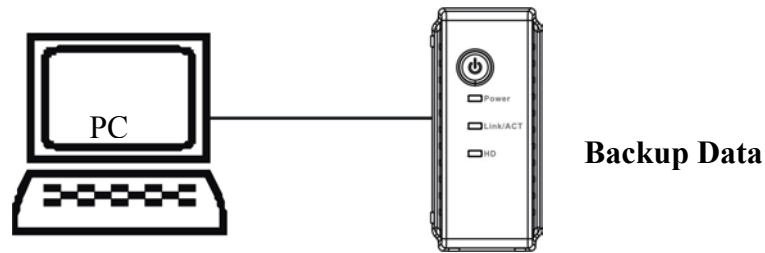


Applications for the Device

Net-Stor™ Network Storage Center

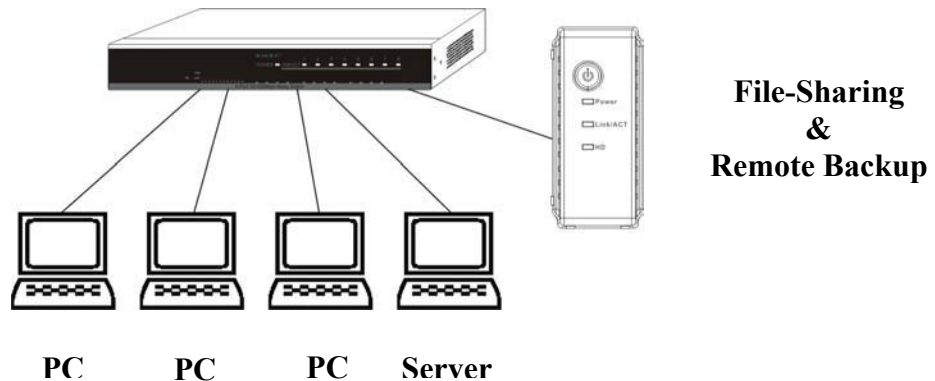
There are several applications for the Network Storage Center.

Individual users can back up important files from their PCs.



Individual User

For Multiple users, the Network Storage Center provides a convenient way for file sharing and backup. All users have to do is connect the Network Storage Center to a router or switch to enjoy its easy and robust features.



Multiple Users

Backup

For Windows 2000/XP users, the OS provides an accessory system tool for data backup: “Backup”. Please follow the steps below as reference to complete data backup:

1. Activate the program: click **Start > Programs > Accessory > System Tools**, and click **Backup**.
2. Click the “Schedule Jobs” tab, and Select a date that you want to activate the Backup job. Click the “Add Job” button.
3. When The Wizard appears, Select “Create a new Job” and Click **OK**.





Applications for the Device

Net-Stor™ Network Storage Center

4. Select “Back up My Computer” to back up your whole system or “Back up Selected files, folders and Driver”. If you want to backup “C:\”, select “Back up Selected files, folders and Driver”
5. If you want to backup one Drive, ex. “C:\”, select the drive by clicking the check box in front of the drive letter.
6. Decide the destination of the backup file.
7. Type a name for this backup job and click Start.
8. Wait for the program to process the status of the backup progress.



For certain applications, the Network Storage Center’s FTP function provides the option of remote backup. For example, if you have an IP camera (or multiple IP cameras), such as a Hawking *Net-Vision*™ Network Camera, that provides an FTP feature and you want to transfer video data from the IP camera back to the Network Storage Center for remote monitoring purposes, the HNAS1 allows you to do so.



IP Camera

Remote Backup (FTP)

To use the FTP function, please use the FTP supported by your browser, for example Internet Explorer 6.0. Type “ftp://domain name” or “ftp://Ipaddress/” in the browser’s address field and press **Enter**. The authentication windows will appear and you can input the username and password. The default User Account is “**ftpuser**”, and the password is “**abc123**”. You may change the password in the FTP settings section, but the user account is fixed. For more information, please refer to the “FTP” section in this user’s manual.

To use the Network Storage Center as an FTP server **without** a fixed IP or domain name, please set up your router’s DDNS and port mapping (Virtual Server) first. As for the settings, please refer to the DDNS and port mapping sections in your router’s user’s manual.



1. How do I shut down the Network Storage Center properly?

Ans. To shut down the system properly, hold the Power button on the front of the unit down for at least five seconds until the Power LED blinks and then turns off.

2. The Express Setup Wizard cannot configure my network settings.

Ans.

- Make sure that your RJ-45 Ethernet cable is connected on both ends, to the Network Storage Center on one end and the Router/Switch/PC on the other end.*
- Check the Link/ACT LED on the Network Storage Center and make sure that it is lit green.*
- Check the power on the Network Storage Center, and Router/Switch/PC and make sure that it is on on both ends.*
- Check your PC's IP address, and make sure that it has a static IP address or connects to the router with a DHCP Client. As for the settings, Please refer to the "IP Protocol Setup" Chapter in this user's manual.*
- The system may be down. Reboot the system with the web-based UI or press the Reset button to restore the factory default settings and reboot.*
- Check your network or PC settings to make sure that they are configured properly.*

3. The Network Storage Center cannot find my hard drive and the homepage of web-based UI displays the message "HD unable to use".

Ans. There could be several reasons for this:

- The hard drive jumper is not set to "Master". Your hard drive jumper needs to be set to "Master". Different hard drives have different jumper settings. Therefore, you will need to refer to your **hard drive's** user's manual.*
- The hard drive is unformatted. Please format it with our HD Format tool in the "Administration" section of the Network Storage Center's web UI.*
- The partition format for the hard drive is not set to EXT3 (for example, it may be NTFS). Please format it with the Format tool in the "Administration" section of the Network Storage Center's web UI.*
- The hard drive may be defective, in which case, you would need a new hard drive.*

4. My Network Storage Center will not work when it was not properly shut down (for example, from unplugging the adapter or a blackout while it was working).

Ans. When the Network Storage Center is not shut down properly, the system will automatically check and repair the MS-DOS file system of the device to ensure the system is working normally. Please wait for the system to complete the process.

Note. The average time for the checking and repairing tool complete is: 20GB / 1 minute. Therefore, with 250GB, the process would take 12 minutes.



Troubleshooting

Net-Stor™ Network Storage Center

5. I use my Network Storage Center as an FTP server, but the users outside the local area network (LAN) cannot access it.

*Ans. To use the Network Storage Center as an FTP server **without** a fixed IP or domain name, please set up DDNS and port mapping on your router (IP Sharing) first. As for the settings, please refer to the DDNS and port mapping sections in your router's user's manual.*

6. I cannot access the Network Storage Center.

Ans.

- Check the Network Storage Center's Link/Act LED and make sure that it is lit green.*
- The system may be down. Reboot the system with the web-based UI or press the Reset button to restore the factory default settings and reboot.*
- When more than five users are concurrently connected to the system, the system will block other users who want to access. Please check the number of Samba Users / FTP Users by clicking the "Click here for more information..." link on the web-based UI.*



Specifications

Net-Stor™ Network Storage Center

Standards

IEEE 802.3, IEEE 802.3u

Supported Protocols

TCP/IP, HTTP, SMB, FTP

Number of Concurrently Supported Users

Samba: Five Users; FTP: Five Users

Interface

One 10/100Mbps RJ-45 Ethernet port

One Default Reset Button

Connection Speed

10/100Mbps

Support Hard Drive(s)

One removable 3.5" IDE hard Drive (ATA) of up to 250GB

Diagnostic LEDs

Power: On/Boot or Shutdown (Green/Blinking)

Link/ACT: Ethernet Act/Link (Green)

HD: Hard Drive Data Transfer (Amber/Blinking)

Dimensions

8.66" x 2.36" x 5.20" (L x W x H); 220mm x 60mm x 132mm (L x W x H)

Operating Temperature

0°-50°C; (32° - 122° F)

Power Supply

DC 12V 3A External power adapter

Certifications

FCC (CISPR 22), CE (EN55022), VCCI Class B